

103.5 - Nanomaterials: Composition

For related materials see [Table 301.1 Particle Size \(powder and solid forms\)](#)

PLEASE NOTE: The tables are presented to facilitate comparisons among a family of materials to help customers select the best SRM for their needs. For specific values and uncertainties, the certificate is the only official source.

SRM Description Unit Size	2483 Single-Wall Carbon Nanotubes (Raw Soot) (250 mg)
Concentrations are expressed as mass fractions, in mg/kg (unless noted by an asterisk * for %).	
Aluminum (Al)	723
Arsenic (As)	(12.5)
Barium (Ba)	119.0
Boron (B)	(74.7)
Calcium (Ca)	(0.303*)
Carbon (C)	(94.6*)
Cesium (Cs)	192.7
Chlorine (Cl)	0.2125*
Cobalt (Co)	0.963*
Copper (Cu)	(186)
Dysprosium (Dy)	8.36
Europium (Eu)	2.27
Gadolinium (Gd)	10.57
Hafnium (Hf)	(0.38*)
Lanthanum (La)	104.0
Magnesium (Mg)	0.1150*
Manganese (Mn)	4.482
Molybdenum (Mo)	3.406*
Samarium (Sm)	13.09
Sodium (Na)	0.1187
Concentrations are expressed as mass fractions, in mg/kg (unless noted by an asterisk * for %).	
Thorium (Th)	25.7
Tungsten (W)	7.50
Vanadium (V)	6.89

- Certified values are normal font
- Reference values are italicized
- Values in parentheses are for information only